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(74) Agent: **WINCKELS, J.H.F.**; Johan de Wittlaan 7,  
NL-2517 JR Den Haag (NL).

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(71) Applicant (*for all designated States except US*): **ERASMUS UNIVERSITEIT ROTTERDAM** [NL/NL]; Dr. Molewaterplein 50, NL-3015 GE Rotterdam (NL).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MOORHOUSE, Michael, John** [GB/NL]; Zwaanshaals 245 A, NL-3035 KE Rotterdam (NL). **VALK, Petrus, Jacobus, Maria** [NL/NL]; Wout van Heusdensingel 105, NL-3059 TD Rotterdam (NL). **DELWEL, Hendrik, Rudolf** [NL/NL]; Leeuwendaal 10, NL-3273 XD Westmaas (NL). **LOWENBERG, Bob** [NL/NL]; Vijverweg 38, NL-3062 JP Rotterdam (NL). **VAN DER SPEK, Petrus, Johannes** [BE/BE]; Hulsbos 5, B-2275 Lille (BE).

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(54) Title: CLASSIFICATION, DIAGNOSIS AND PROGNOSIS OF ACUTE MYELOID LEUKEMIA BY GENE EXPRESSION PROFILING

(57) Abstract: The present invention relates to methods of genetic analysis for the classification, diagnosis and prognosis of acute myeloid leukemia (AML). The invention provides a method for producing a classification scheme for AML comprising the steps of a) providing a plurality of reference samples, said reference samples comprising cell samples from a plurality of reference subjects affected by AML; b) providing reference profiles by establishing a gene expression profile for each of said reference samples individually; c) clustering said individual reference profiles according to similarity, and d) assigning an AML class to each cluster. The invention further relates to a method for classifying the AML of an AML affected subject, to a method for diagnosing AML in a subject, and to a method of determining the prognosis for an AML affected subject.

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